

KINO-TORSION MK II USER MANUAL



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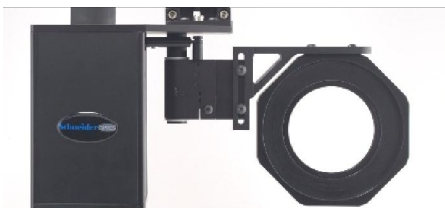
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WELCOME

Congratulations on your purchase of a Schneider Optics, Inc. Kino-Torsion MK II anamorphic lens deployment unit. This system is composed of the finest mechanical components available. The mechanical assemblies within the Kino-Torsion lens mover are designed for the demanding duty cycle of a professional screening room. Installation by a qualified professional is recommended for best results.

INSIDE THE BOX

NOTE: A Cine-Digital Anamorphic lens is required to use the Kino-Torsion and must be purchased separately.



*Kino-Torsion MK II (Motorized Lens
Deployment Unit)*
P/N: 027100



*Power Supply (12-volt output, 50-60
Hz, 110-240-volt input)*
P/N: 9010-0012



Power Cord 3 Types
Type US P/N: 9010-0042
Type EU P/N: 9010-0043
Type UK P/N: 9010-0044



*12-Volt Trigger Cable (3.5mm
Jack, 3 meter length, Male-Male)*
P/N: 9010-0046



*2 Position Connector
Terminal Block*
P/N: 050383



*Female to Female RS-232 to
RJ45 Modular Adapter*
P/N: 027281

INSIDE THE BOX (Cont.)



*1.33X Anamorphic Threaded Lens
Adapter Ring W/ Nylon Screw
For lens P/N: 1001.00345.02.00.35
P/N: 026911 (Ring)
P/N: 050316 (Nylon Screw)*



*1.33X Anamorphic Lens Adapter Ring
For lens P/N: 54-047079 & 54-1055212
P/N: 026896*



*RF Remote Key Fob
P/N: 027332*



*4- M3 X 6 mm Flat Socket
Head Screws
P/N: 050157*



*10-32 X 1/2 Nylon Tip
Socket Set Screw
P/N: 050176*

REQUIRED TOOLS

1. 2mm Hex Wrench
2. 4mm Hex Wrench
3. 1/8" Hex Wrench
4. 3/32" Hex Wrench

ATTACHMENT OF LENS TO KINO-TORSION UNIT

There are two different methods of attaching the 1.33X anamorphic lens to the Kino-Torsion unit depending on the lens version being utilized.

1. Method 1 (Threaded lens P/N: I001.00345.02.0035 with P/N: 026911 Adapter Ring)
 - Attach the supplied threaded adapter ring on to the 1.33X anamorphic lens. Once ring is threaded on to lens, place the supplied nylon set screw onto the threaded adapter ring in order to lock the ring on to the lens.
 - Attach lens to the Kino-Torsion unit by threading lens to the octagonal arm of the unit until lens bottoms out. Rotate lens backwards until the flat sides of the inner bezel are vertical see Illustration #1. This is a temporary rough alignment method. See section "OPERATION" for fine adjustment and lens locking methods.

ATTACHMENT OF LENS TO KINO-TORSION UNIT (Cont.)

2. Method 2 (Non thread lens P/N: 54-047079 & P/N: 54-1055212 with P/N: 026896 Adapter Ring)
 - Attach adapter ring using the 4 supplied flat head screws to 1.33X anamorphic lens.
 - Attach lens to the Kino-Torsion unit by threading lens to the octagonal arm of the unit until lens bottoms out. Rotate lens backwards until the flat sides of the inner bezel are vertical see Illustration #1. This is a temporary rough alignment method. See section "OPERATION" for fine adjustment and lens locking methods.

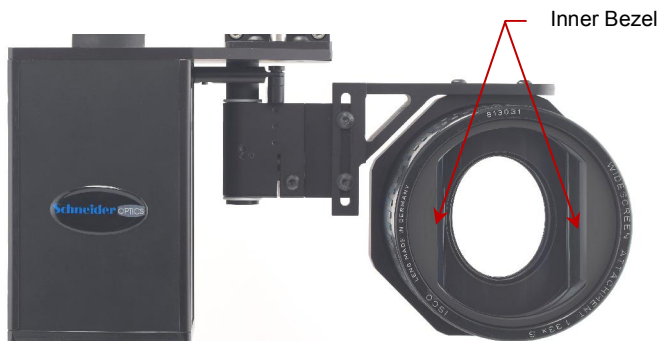


Illustration #1

ELECTRICAL CONNECTIONS

1. The Kino-Torsion unit, is supplied with a power supply which is compatible with US, UK, and EU power cords. Use the power cord best suited for the installation. Connect the power supply into the power input of the unit per Illustration #2. Once plugged in a green LED will light indicating the unit is powered up.

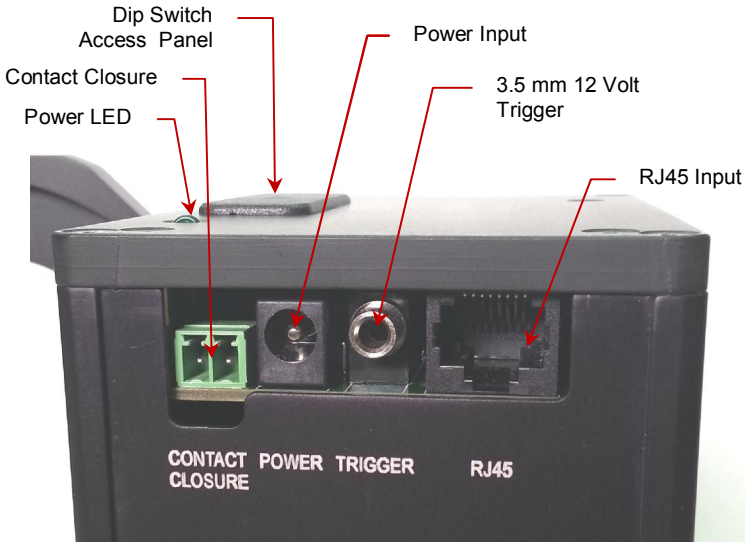


Illustration #2

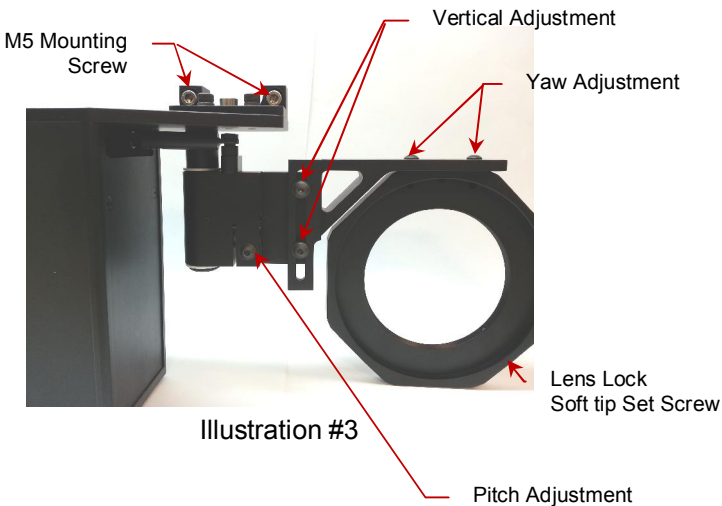
INSTALLATION

It is recommended to mount the Kino-Torsion unit using the Schneider Universal Kino mount P/N: 54-018742. However the unit can be mounted to various projector mounts using the 2 M5 mounting screws.

- If focusing projector for the first time, use the RF Remote Key Fob to take the lens out of the light path of the projector. Follow projector manufacturer instructions for setting up image.

INSTALLATION (Cont.)

- Deploy the anamorphic lens into the projector light path to assure that no part of the lens or cradle contacts any part of the projector. Position the rear of the anamorphic lens as close as possible to the projector. The target offset should be between 1/8" and 1/4". Once lens is in place, observe image using the projector test grid pattern.
- If the image requires focusing, loosen the lens focus knob on the Schneider Anamorphic lens to adjust the focus.
- If image clipping is observed on top or bottom, adjust the anamorphic lens vertically or horizontally. Use the vertical adjustments on the Kino-Torsion.
- If "trapezoidal" distortion is observed, adjust the pitch on the Kino-Torsion.
- If "parallelogram" distortion is observed, adjust lens rotation (roll). Once in the correct orientation, place the supplied soft tip set screw onto the octagonal arm in order to lock the lens in place to the Kino-Torsion unit.



OPERATION

(Home Position) The Kino-Torsion unit is shipped with the arm in the extended position. This is the default home position. The unit will automatically return to the home position when powered up.

(Reverse Home Position) If needed, the factory default home position can be changed to a reverse home position. To do this the Kino-Torsion is equipped with an on board dip switch which can change the default factory set ups. Locate the dip switch by removing the dip switch access panel located next to the green LED (see Illustration #2.) The Home Position / Reverse Home Position setting is controlled by the #11 switch (see Illustration #4). Set the #11 switch to “off” to set the unit to Reverse Home Position.

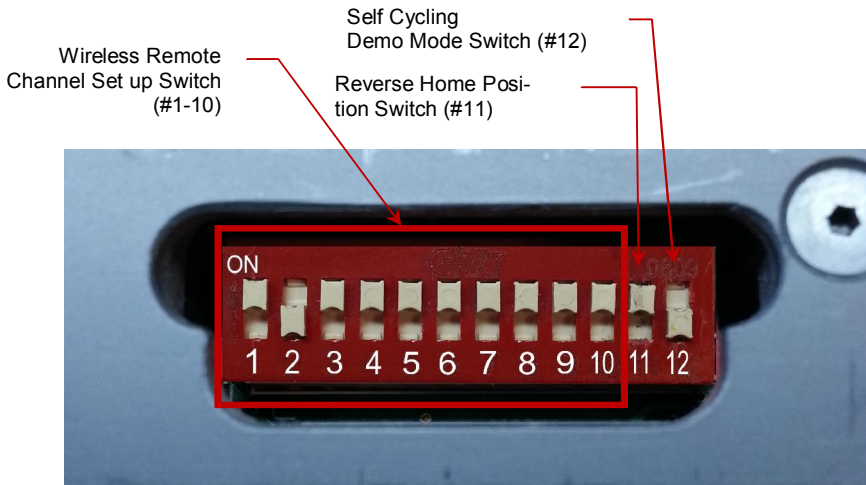


Illustration #4

OPERATION (Cont.)

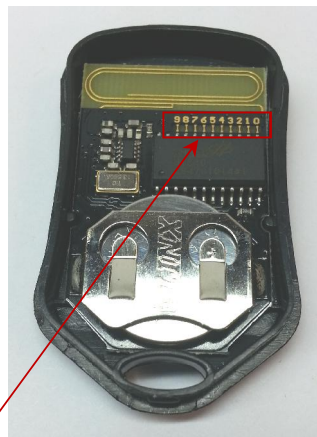
(Self Cycling Demo Mode) The Kino-Torsion has the capability of self cycling indefinitely as a demonstration tool. By default, this function is turned off. However, if this function is desired, locate the dip switch by removing the dip switch access panel located next to the green LED (see Illustration #2.) Set the #12 switch to the on position (see Illustration #4.) The unit will begin to self cycle. To stop the self cycling function, set the #12 switch to the off position.

(Contact Closure) The Kino-Torsion can be actuated via simple contact closure using the supplied 2 pin Phoenix type plug. Use a wire to connect the two terminals on the plug. Connect the modified plug into the contact closure input of the unit. This will actuate the lens. Remove the plug from the unit in order to return the unit to the home position.

(3.5 mm Jack 12 volt input) When the Kino-Torsion receives 12 volts through this connector, the lens is actuated. When the voltage is zero, the lens returns back to the home position. A 12-volt trigger can be supplied by a programmable 12-volt source on the projector, video scaler, or home theater control system.

(Wireless Remote) The Kino-Torsion can be operated using the supplied one button remote. By default, the unit is paired up with the wireless remote to work on a specific address.

However if interference is encountered with the default set up, the unit and remote may be modified in order to change the communication address and eliminate the interference. Open the remote by prying the two halves. The address definition is controlled by the circuit lines numbered 0-9 per Illustrations #4 and #5. These paired circuit lines correlate to switches 1-10 located on the Kino-Torsion Unit dip switch (see table 1 for pairing correlation.)



Remote Channel
Definition

Illustration #5

OPERATION (Cont.)

A severed trace on the Key FOB corresponds to an “off” position on the Kino-Torsion dip switch. By factory default, the unit and remote are paired 1-2 (i.e. the remote circuit line #1 has been severed and this corresponds to the Kino-Torsion dip switch #2 being set to the “off” position.) To change to a different address switch off the desired switch from the dip switch on the unit. Next, sever the corresponding remote circuit line creating a discontinuity in that circuit number. Once done the remote and unit will be paired once again.

TABLE 1	
Remote Circuit Line #	Kino-Torsion Dip Switch #
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10

ABOUT SCHNEIDER

Schneider Optics is the U.S. subsidiary of the world-renowned German optical manufacturer, Schneider-Kreuznach. Schneider has been producing the highest quality optics on the market for over 100 years, offering solutions for large-format photography, photo enlarging, motion picture projection, optical filtration, and industrial applications. In 2000, Schneider Optics acquired Century Precision Optics, adding its over 50 years of experience in manufacturing superior attachments for film and video.

Schneider Optics has offices in Hauppauge, NY and Van Nuys, CA and a network of hundreds of dealers around the globe, ready to assist you with any of your imaging needs.

Joseph Schneider founded the company in 1913 in Bad Kreuznach, Germany. Since that time the Schneider factory has been constantly modernized, always remaining state-of-the-art. The factory is fully compliant with ISO 9001 standards. Its U.S. subsidiary, Schneider Optics, was founded in 1972.

Century Precision Optics first

opened its doors in North Hollywood, CA in 1948, and quickly gained a reputation for expert lens repair, custom modification and intelligent innovation. In the early 80's Century began creating what has become the most extensive array of ultra-high quality video lens accessories available anywhere.

Separately the two companies were leaders in their respective spheres of the optical world—both having been awarded Technical Achievement Awards from the Academy of Motion Picture Arts and Sciences (Schneider in 2005, 2001, 1978 and 1976; Century in 1992). Together they are the ultimate solution to all your optical needs.



Schneider Cinema Projection Lens technology has won four Technical Achievement Awards from the Academy of Motion Picture Arts and Sciences



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